Influence of -Radiation on Electrode 78332
Properties of Lithium Glass. Letter to SOV/89-8-3-17/32
the Editor

figure; 2 tables; and 3 references, 2 Soviet, 1 U.S.
The U.S. reference is: G. Perley, Analyt. Chem., 21, 394 (1949).

SUBMITTED: November 27, 1959

Card 4/4

5.5400 AUTHORS:

Leont yev, V. M., Fedotov, N. A.

68922

\$/032/60/036/03/009/064

B010/B005

TITLE:

Automatic High-ohmic Polarcgraphy With a Vibrating Platinum Elec-

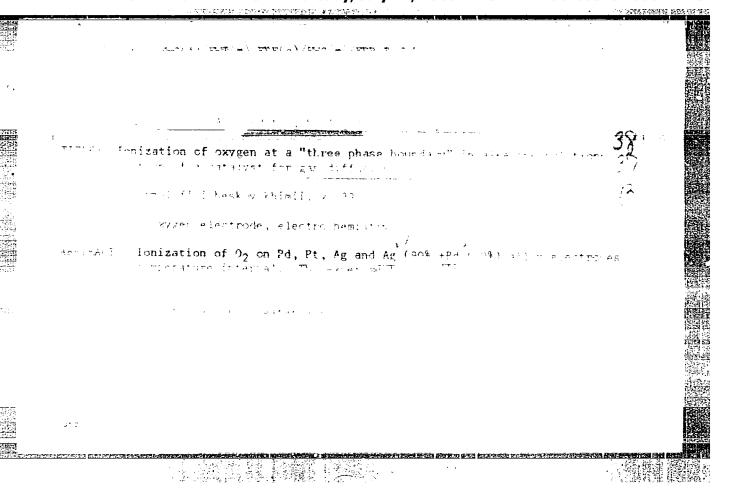
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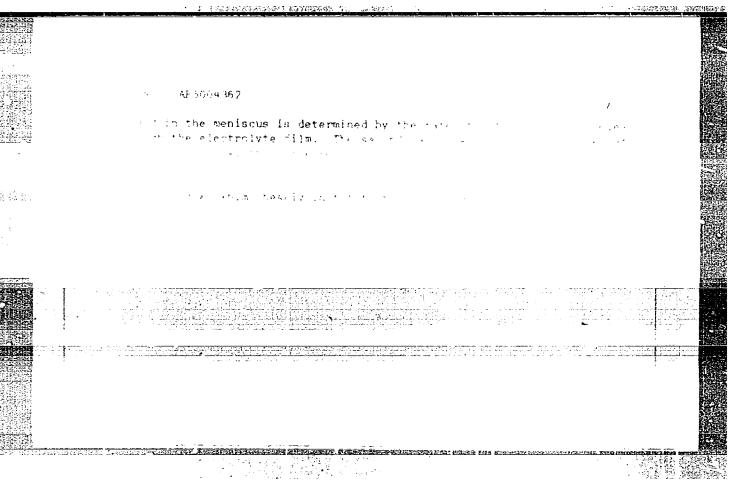
PERIODICAL:

Zavodskaya laboratoriya, 1960, Vol 36, Nr 3, pp 276-278 (USSR)

TEXT: An apparatus (Fig 1, Diagram) was developed for polarographic recording at high electric resistance, and a method of recording the I - 9 curves (I = current in μa, γ = polarizing potential in ν) in time intervals in which no essential change of the electrode surface takes place. The electrode used is a platinum electrode vibrating at a frequency of 50 cycles and an amplitude of about 1 mm. The cathode- and anode space is connected by ground-in stopcocks offering an electric resistance up to 30,000 ohms. An ordinary tube rheostat was used to polarize, the electrode. The intensity of the polarizing current is measured by an EPP-09 potentiometer, and the potential between electrode and comparison electrode by a second EPP-09 potentiometer. The latter has a special high-ohmic power supply. The drum on which the polarization curves are automatically recorded is directly connected with the axle of the rheocord, or with the RD-09 reversive motor of the potentiometer. The current intensity changes automatically with a synchronous motor. The vibration of the platinum electrode is caused by an electromagnetic device. Cathodic polarization curves (Fig 2) obtained on reduction of

cara 1/2			
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utomatic High lectrode	n-ohmic Pol	arography With a Vibrating Platinum	s/032/60/036/03/009/064 B010/B005
roduces a mai	rginal ourse polarizatal in spites. There as	cochloric acid solutions show that the rent 3 - 3.5 times higher than a rest tion curves recorded with open or old s of the fact that the cell resistance re 3 figures and 3 references, 2 of the issledovatel'skiy fiziko-khimicheskiy	ing electrode. It was used ground-in stop- be changes by a which are Soviet.
	(Scientific Research Institute of Physical Chemistry imeni L. Ya. Karpov)		
	L. Id. K	arpov)	
Card 2/2			





MAZITOV, Yu.A.; FEDOTOV, N.A.; ALADZHALOVA, N.A.

Ionization of oxygen on a "three-phase boundary" in alkaline solutions. Part 2. Zhur. fiz. khim. 39 no. 1:218-222 Ja '65 (MIRE 19:1)

1. Fiziko-khimicheskiy institut imeni L. Ya. Karpova, Moskva. Submitted February 24, 1964.

ACCESSION NR: AT4026344

8/0000/62/000/000/0049/0056

AUTHOR: Fedotov, N. D.

TITLE: Transistor and ferrite-transistor elements

SOURCE: Konferentsiya po obrabotke informatsii, mashinnomu perevodu i avtomaticheskomu chteniyu teksta. Moscow, 1961. Vy*chislitel'naya i informatsionnaya tekhnika (Information processing and computer technology); sbornik materialov konferentsii. Moscow, 1962, 49-56

TOPIC TAGS: circuit design, logical design, transistor, ferrite transistor element, module

ABSTRACT: The author points out that the fundamental trend in the design of electronic machines of all types and sizes is the greater use of modules. This results in a simplification of the circuitry, facilitates the operation of the units and enhances reliability. This paper deals with the full complex of the logical and control elements for the units of electronic digital computers used for practical instruction purposes. The complex, which was developed in several specialized Soviet agencies, is designed in the form of modules, which perform a finite logical operation, and includes: 1) inverter "NOT", "NOT OR"; 2) a coincidence stage "AND" (valve); 3) a 3-input emitter repeater "OR"

Cord 1/8 2

ACCESSION NR: AT4026344

(operation of logical addition); 4) an amplifier with transformer load; 5) a ferritetransistor cell. The modules were developed for a sequential-action machine with a magnetic drum memory and permit the mounting of various logical and control circuits. For reasons of economy and circuitry convenience, modules 1, 2, 3 and 5 are produced in different versions, indicated in the article. An over-all view of the module may be seen in Figure 1 of the Enclosure. The design of the modules is such that they can be interconnected, avoiding the need for coupling over "output - input" channels, resulting in increased flexibility when setting up the circuitry. For this purpose, the location of the parts was selected with regard to the most probable deviation from the general rules governing element coupling. In general, potential couplings (with capacitance correction) were employed, although in the pulse-forming modules (inverter, amplifier) the additional possibility of passing the signals through the capacitance alone was provided. The modules were circuit-tested at frequencies of 100 - 200 kc. Orig. art. has: 8 figures.

ASSOCIATION: None

SUBMITTED: 00

DATE ACQ: 16Apr64

ENCL: 01

SUB CODE: CP

NO REF SOV: 000

OTHER: 000

2/3人

FEDOTOV, N.F., kand.tekhn.nauk

Calculation of mounted road-building equipment for dynamic loads. Stroi.i dor.mashinostr. 4 no.9:4-8 5 59.

(MIRA 12:11)

(Road machinery)

"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00041273

"Investigation of the Peeling Process in Wheat Grinding." Thesis for Degree of Cand. Technical Sci. Sub 15 Jun 49, Moscow Technological Inst of Food Industry.

Summary 82, 18 Dec 52. Dissertations Presented For Degrees in Science and Engineering in Moscow in 1949. From Vechernyaya Moskva. Jan-Dec 1949.

FEDOTOV, N. I.

FEDOTOV, N. I.: "The dynamics of immunobiological reactions in immunization with live brucellosis vascine and some methods of differentiation vaccinated animals from those afflicted with brucellosis." Cdessa State U imeni I. I. Mechnikov. Odessa, 1956 (Dissertation for the degree of Candidate of Biological Sciences.)

SO: Knizhnaya Letopis', No 36, 1956, Moscow.

FEDOTOV, N.I.; GEYZER, R.I.; GERASIMENKO, L.N.; LUK TANTSEVA, V Ya.; PERSIANOVA, I.P.

Relation between the degree of microflora permention of canned food before sterilization and the results of the bacteriological analysis of the finished product. Kensai overome 17 no.7:37-39 Jl 162. (MIRA 15:6)

1. Ukrainskiy nauchno-issledovatel'skiy institut konservnoy promyshlennosti.

(Food, Canned-Sterilization) (Food-Bacter clogy)

CEYZER, R.I.; FEDOTOV, N.I.; GERASIMENKO, L.N.; PERSIANOVA, I.P.

Various methods of comparative bacteriological analysis of canned food before sterilization. Kons.i ov.prom. 17 no.9; 31-33 S '62. (MIRA 15;8)

1. Ukrainskiy nauchno-issledovatel'skiy institut konservnoy promyshlennosti. (Food-Bacteriology) (Food, Canned-Sterilization)

PDOSS Smelting in the Dross Reverberatory Furnace and the History of Its Use in Ridder
Tsvet. Met. 14, No 6, 1939
Report U-1536, 4 Oct. 1951.

FRDOTOV, N. I. Cand Tech Sci -- (diss) "Problems of the planning of mechanized sorter hills." Len, 1957. 18 pp (Min of Railways USSR. Len Order of Lenin Inst of Engineers of Railroad Transport im Academician V. N. Obraztsov), 100 copies (KL, 43-57, 89)

-38-

FX 3072117 PA - 3096 UMANSKIY, B.Z., FEDOTOV, N.I., and CHALIDZE, I.H., AUTHOR: The Irkutsk Hydroelectric Station. (Irkutskaya gidroelektrostant-TITLE: siya, Russian) Elektrichestvo, 1957, Mr 5, pp 1 - 6 (U.S.S.R.) Reviewed: 7 / 1957 PERIODICAL: Received: 6 / 1957 In December 1956 the water power station of Irkutek, the first of Angara-Cascade, began operation. Thus is the foundation laid for the ABSTRACT: energy system of Irkutsk-Cherenkhovo-Bratsk. After the planned beginning of operation of the power station of Bratsk in 1960 the entire system will be united with that of Krasnoyarsk-Kusnetsk-Novosibirsk to become one of the largest in the world. The general characteristics of the Irkutek station are described. One feature of the plant is the lack of a concrete spillway. The combined length of the earth dans amounts to 2,5 km. The function of the spillway is carried out by the easels which are placed in the power station building and which lead the water down. hey let the high water through. In connection with the raising of the Baikal Sea water level about one meter, a 100 km long new stretch of railroad was built. It is electrified. The main electrical set up is described and the history of its development since 1951 given. Then follow PR 8U. **AY**, descriptions of schemes for special requirements and the description of the basic equipment. The installation disposes of 8 turbines with Cal Card 1/2

APPROVED FOR RELEASE: Thursday, July 27, 2000

CIA-RDP86-00513R00041273(

SAKOV, A.D., inzh.; UMANSKIY, B.Z., inzh.; FEDOTOV, N.I., inzh.

The Bratsk Hydroelectric Power Station. Elek. sta. 34
no.1:7-13 Ja '63.

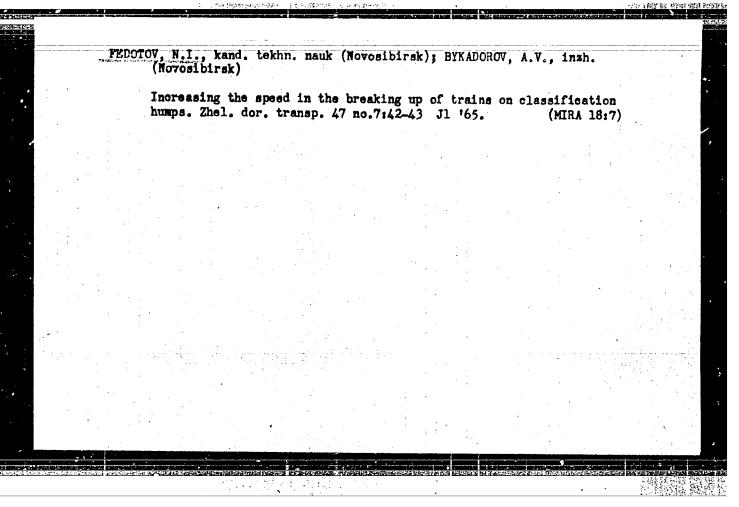
(Bratsk Hydroelectric Power Station)

(Bratsk Hydroelectric Power Station)

FEDOTOV, N.I., kand. tekhn. nauk

Calculating the number of receiving and departure tracks in section and classification stations. Trudy MIIZHT no.29:20-60 *62.

Calculating the time spent in the pushing back of cars in a classification yard. 111-127 (MIRA 16:10)



FELCTCV, H. M.

USSR/Pulleys Stresses

Feb 1947

"Stresses in a Pulley," A. L. Rabinovich, N. M. Fedctov, 35 pp

"Inzhenernyy Sbornik" Vol III, No 2

Studies of a pulley subjected to a uniform radial load along the arc of contact between a cable and the rim, with concentrated loads applied at each end of the arc.

PA 16T64

FEDOTOV, N. M.; PUSTIL'NIK, I. M.

Sugar industry of the Tatar Economic Region. Sakh. prom. 36 no.10:5-8 0 '62. (MIRA 15:10)

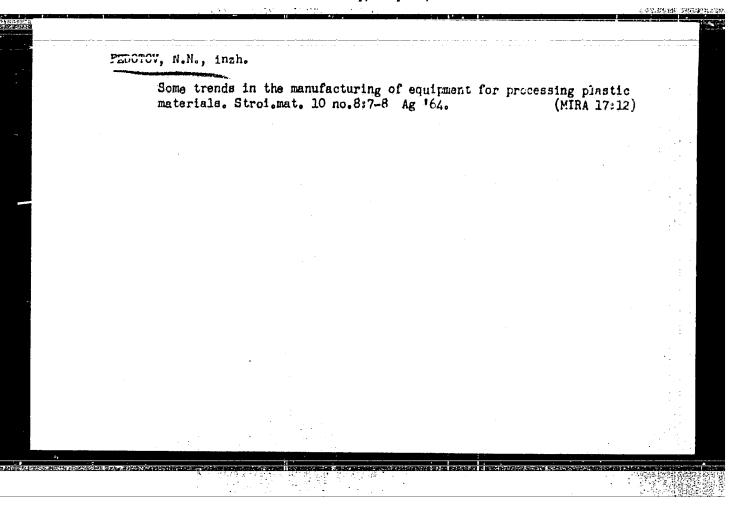
1. Tatarskiy sovet narodnogo khozyaystva.

(Tatar A.S.S.R.—Sugar industry)

FEDOTOV, N.M.; GALKINA, G.V.

New type of sacchariferous products from corn. Sakh. prom. 37 no.10447-51 0. '63. (MIRA 16:12)

1. Sredne-Volzhskiy sovet narodnogo khozyayatva (for Fedotov).
2. TSentral'nyy nauchno-issledovatel'skiy institut krakhmalopatochnoy promyshlennosti (for Galkina).



LYUBOVICH, Yu.O.; PUNSKIY, Ya.M., professor, retsenzent; KLIMENKO, K.I. kandidat ekonomicheskikh nauk; FEDOTOV, N.P., redaktor; ANDEL'MAN, S.Ya., redaktor; ALBUMOVA, Ye.S., tokunicheskiy redaktor

[Economics of a machine building plant] Ekonomika mashinostroitel' nogo zavoda. Moskva, Gos.nauchno-tekhn.isd-vo mashinostroit.lit-ry 1948. 2?1 p. (Machinery--Industry)

(Machinery--Industry)

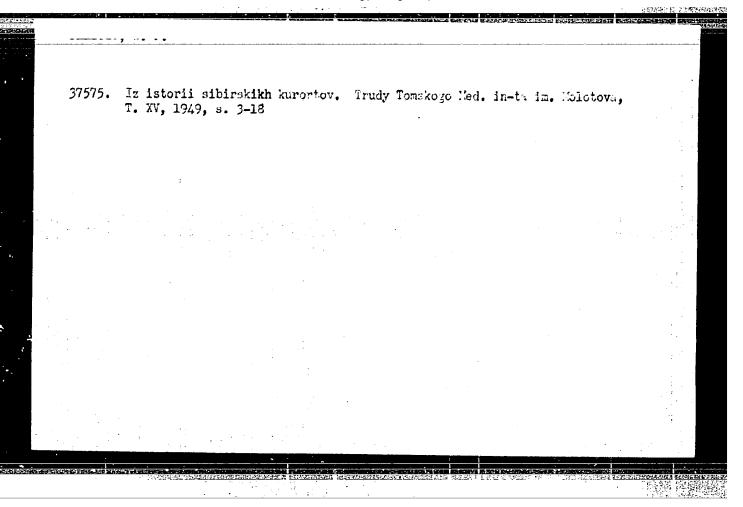
PEDOTOV, N.P.

Tasks facing the Scientific and Technical Society of Vater Transpertation. Rech. transp. 14 no.11:9-12 N '55.

(MLRA 9:2)

1.Predsedatel' TSentral'nogo pravleniya nauchno-tekhnicheskege ebshchestva vodnoge transporta.

(Inland water transpertation-Research)



FEDOTOV. N. P.

"Historical Outline of Medicine in Siberia in Connection With the History of Its Colonization (1585-1861)." Thesis for degree of Dr. Medical Sci. Sub 28, Apr 50, Acad. Hed. Sci. USSR

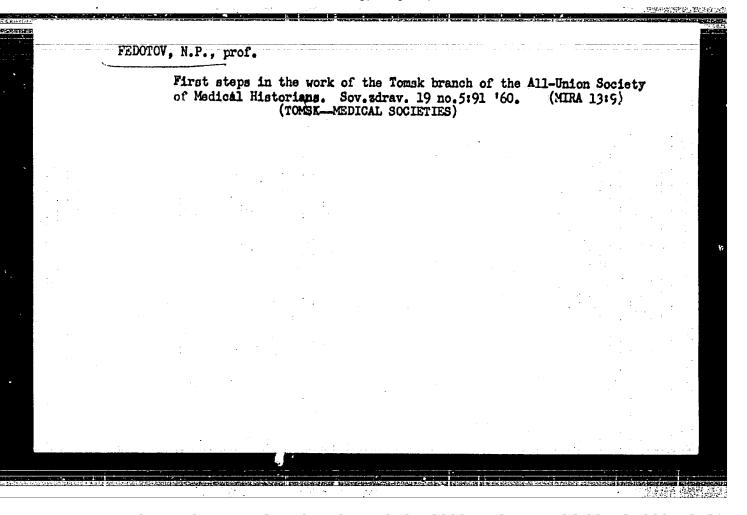
Summary 71, 4 Sep 52. Dissertations Presented for Degrees in Science and Engineering in Moscow in 1950. From Vechernyaya Moskva. Jan-Dec 1950.

PEDOTOV. N.P.

Treatment of wounds with aromatic emulsion of Coriandrum sativum ethereal oil. Sov.med. 19 no.1:70-71 Ja 155. (MIRA 8:4)

1. Is propedevticheskoy khirurgicheskoy kliniki (dir. deystvitelnyy chlen Akademii meditsinskikh nauk SSSR prof. I.G.Rufanov) Lechebnogo fakul'teta I Moskovskogo ordena Lenina meditsinskogo insituta.

(WOUNDS AND INJURIES, therapy,
Ceriandrum sativum, aromatic emulsion of ethereal oil)
(PIANTS,
Coriandrum sativum, aromatic emulsion of ethereal oil,
ther. of wds.)
(OILS,
ethereal oils of Coriandrum sativum, ther. of wds.)

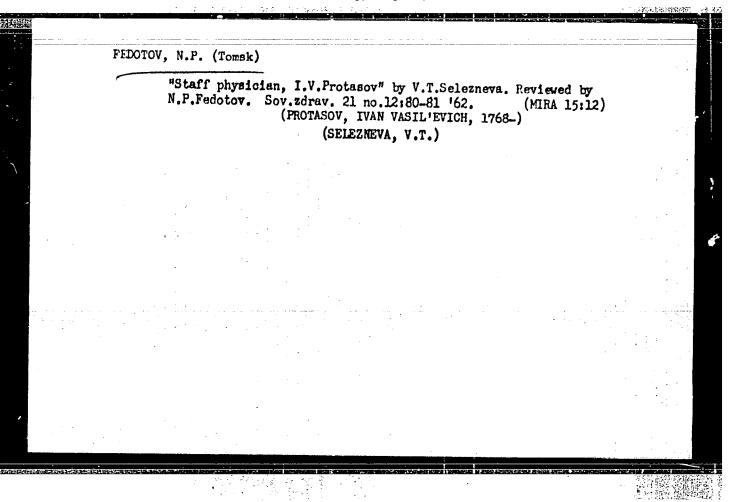


PEDOTOV, N.P.

Subdiaphragmatic abscess. Sov.med. 24 no.1:121-122 Ja '60.

1. Is khirurgicheskogo otdela (sav. N.P. Fedotov) Ivanteyevskoy gorodskoy bol'nitsy (glavnyy vrach D.P. Yeliseyenkov) Moskovskoy oblasti.

(ABDOMEN--ABSCESS)

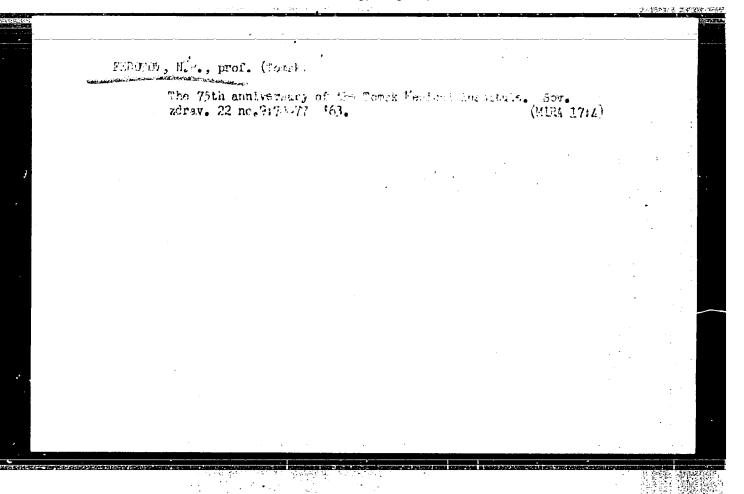


FEDOTOV, N.P., prof. (Tomsk)

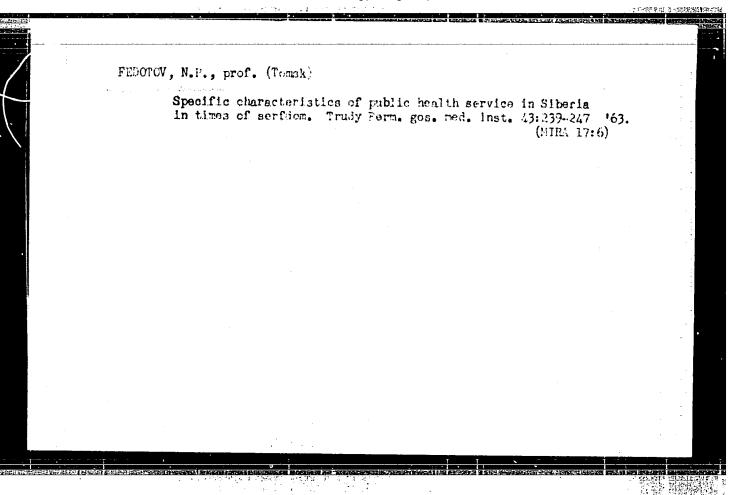
"/ll-Union scientific congresses of physicians and their importance in the practice of Soviet public health service" by M.I. Barsukova. Reviewed by N.P.Fedotov. Sov.zdrav. 22 no.4:89-91

'63. (MEDICINE—CONGRESSES)

(BARSUKOVA, M.I.)

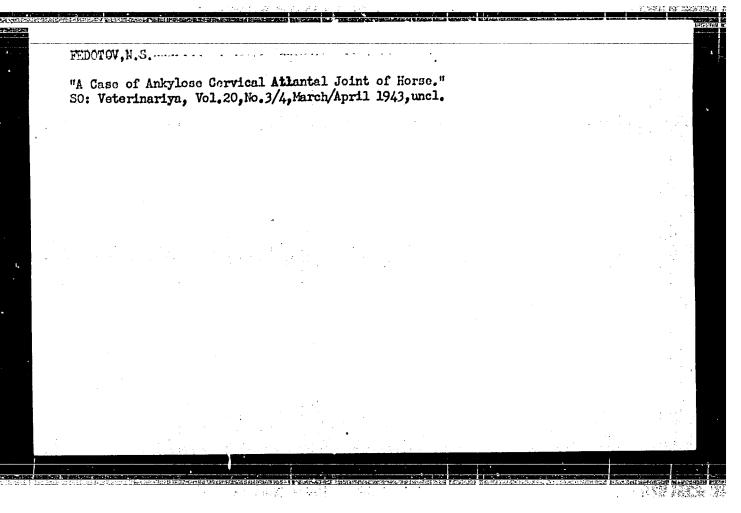


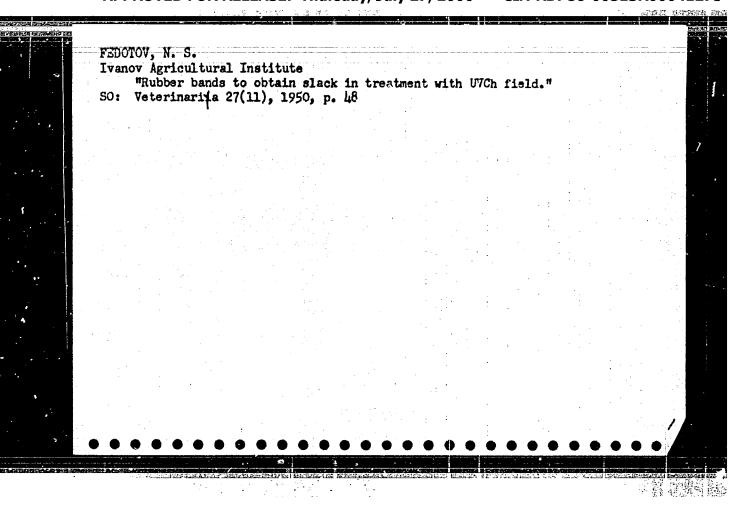
F.B. Gebler, prominent Siberian physician. Trudy Perm. gos. med. inst. 43:171-174 '63. (MIRA 17:6)

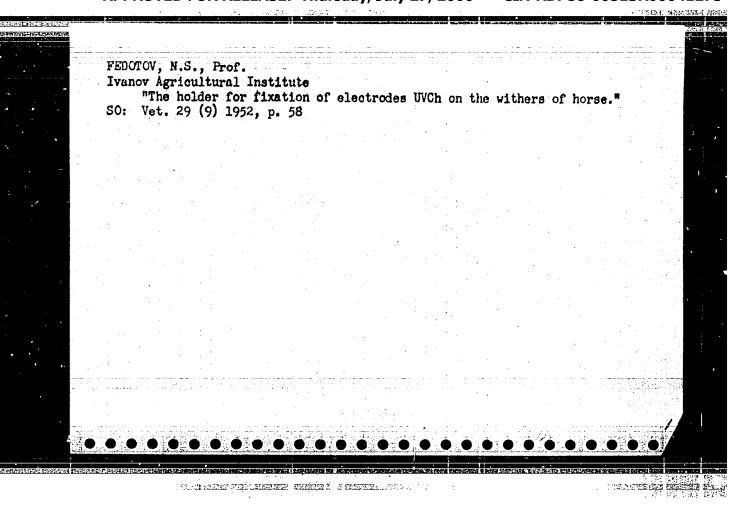


"APPROVED FOR RELEASE: Thursday, July 27, 2000

CIA-RDP86-00513R00041273







"APPROVED FOR RELEASE: Thursday, July 27, 2000

CIA-RDP86-00513R00041273

USSR/Medicine - Veterinary

Card 1/1

Author

Fedotov, N. S.

Title

Therapy in cases of phlegmon of the tibia in horses

Periodical

: Veterinariya, 6, 37-38, June 1954

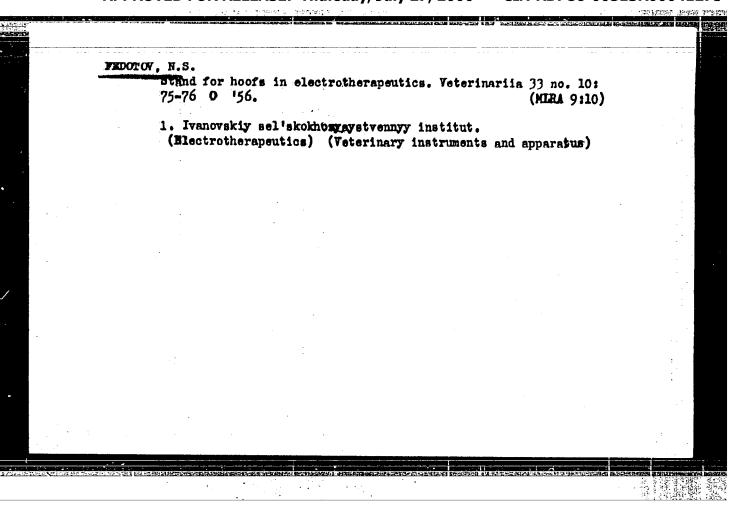
Abstract

Thirty horses with phlegmon of the tibia responded rapidly to treatment by rest, local therapy, and maintenance of red blood cell count and hemoglobin at normal or above normal levels. The infected area was swabbed with tincture of iodine, infrared radiation applied, and the area covered with cotton gauze. Iodine weakens microorganisms that cause inflammation and edema, produces a mild irritation of the nerve endings thereby restoring the func-

tion of the nerves within the foci of infection.

Institution: Ivanovskiy Agricultural Institute

Submitted



FEDOTOV, N.S.

Category: USSR / Diseases of Farm Animals. General Problems.

V-1

Abs Jour: Ref Zhur-Biologiya, No 16, 1957, 72254

Author : Fedotov N. S., Rodinova Yu. P.

Inst

: Not given : The Pavlovski Mixture in the Treatment of Infected Wounds. Title

Orig Pub: Sb. Nauch. Tr. Ivanovsk. S. Kh. In-ta, 1956, 13, 55-58

Abstract: Pavlovski Mixture (Iodine 8-10 gm, ichthyol 6-8 gm and glycerine

100 gm) was administered to infected wounds in horses. This mixture had a favorable effect on the healing process of infected wounds; the treatment was particularly effective when the mixture was used in conjunction with good surgical procedures and with the use of

autohemotherapy and radiation therapy.

: 1/1 Card

-7-

FEDOTOV, NIS.

USSR / Pharmacology, Toxicology, Local Anesthetics

U-5

Abs Jour

: Referat Zh.-Biol., No 1, 1958, 3447

Author

: Varnikov, V.V., Fedotov, N.S.

Inst

: Not given

Title…

: The Effect of Brief Novocaine Block in Combination with an Autohemodressing on Experimental Wound Healing

The second secon

Orig Pub

: 3b. Nauch. tr. Ivanovsk. s.-kh. in-ta, 1956, vyp 13, 66-75

Abstract

Experiments were performed on rabbits. 1-15 cm from the edges of a wound, tissues were infiltrated with a warm 0.25% solution of novecaine in physiologic solution. Blood was withdrawn from the great auricular wein of the experimental rabbit and a pad was soakhdlin the withdrawn blood, and then applied to the wound. Novocaine block in combination with autohemodressings stimulated the healing of experimental wound.

Card 1/1

"APPROVED FOR RELEASE: Thursday, July 27, 2000

CIA-RDP86-00513R00041273

FEDOTOV, N.S.

Category: USSR / Diseases of Farm Animals. General Problems. V-1

Abs Jour: Ref Zhur-Biologiya, No 16, 1957, 72257

Author : Fedotov N.S. Inst : Not given

Title : The Reinforcement of Electrodes in The Treatment of Diseases of

Withers by the "UVCh" poles.

Orig Pub: Sb. Nauch. Tr. Ivanovsk. S.-Kh. In-ta, 1956 Vyp. 13, 139-140

Abstract: No abstract

Card : 1/1

-10-

privier, Aid.

Category: USSR / Diseases of Farm Animals and Diseases Caused by Helminths V-3

Abs Jour: Refer. Zhur-Biologiya, No 16, 1957, 72310

Author : Karpov A. A. Fedotov N. S.

Inst : Not given

Title : Onchocercosis in Horses and its Relation to the Withers.

Orig Pub: Sb. Nauch. Tr. Ivanovsk. S. Kh. In-ta, 1956, Vyp. 13, 148-149

Abstract: In 43 horses under investigation, onchocercosis was discovered in

55.8 percent. No diseases of withers were disclosed, which in the opinion of the authors is due to the good care and feeding of the

animals with avoidance of overwork.

Card : 1/1

-1-

The definition of the second s

FEDOTOV, N.S.

Category: USSR / Diseases of Farm Animals. General Problems. V-1

Abs Jour: Ref Zhur-Biologiya, No 16, 1957, 72252

Author: Fedotov N. S. Inst: Not given

Title : The Application of I. P. Pavlov's Theories to Veterinary Surgery

Orig Pub: Sb. Nauchn. Tr. Ivanovsk, S. Kh. In-ta 1956, Vyp. 15, 127-138

Abstract: No abstract

Card: 1/1

-4-

"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA

CIA-RDP86-00513R00041273

FEPOICY, M.D.

Category: USSRy Diseases of Farm Animals. General Problems.

V-1

Abs Jour: Ref Zhur-Biologiya, No 16, 1957, 72256

Author : Fedotov N. S. Inst : Not given

Title : The Use of the Electrical Field of "UVCh" in the Treatment of Hoof

Diseases in Horses.

Orig Pub: Sb. Nauch. Tr. Ivanovsk. S.-Kh. In-ta, 1956, Vyp. 15, 139-147

Abstract: Satisfactory results were obtained in treatment of horses with

"UVCh" in purulent pododermatitis, phlegmon of the crown, stab wounds of the sole and frog, chronic pododermatitis, "chelnochnogo" block and the hoof joint, in a relatively short period of time. The

different methods of treatment are described.

Card: 1/1

-9-

Suture of wounds after an operation for onchocerciasis of withers in horses. Sbor. nauch. trud. Ivan. sel'khoz. Inst. no.19: 265-270 '62. (MIRA 17:1) 1. Kafedra anatomii i fiziologii zhivotnykh (zav. - dotsent A.K. Petrov) Ivanovskogo sel'skokhozyaystvennogo instituta.

FEDOTOV, N.S.; GARMANOV, A.V.

Effect of early castration on the weight gain of calves of the black and white breed. Sbor. rauch. trud. Ivan. sel'khoz. Inst. (MIRA 17:1)

no.19:271-273 162.

1. Kafedra anatomii i fiziologii zhivotnykh (zav. - dotsent A.K. Petrov) Ivanovskogo sel'skokhozyaystvennogo instituta.

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00041273(

FEDOTOV, N. S. (Professor). KARPOV, A. A. and OVCHINNIKOV, M. S. (Veterinary doctors, Ivanovo Oblast' Veterinary Polyclinic).

"Periodic irrigation of the frontal sinus of cattle"...

Veterinariya, vol. 39, no. 8, August 1962 pp. 53

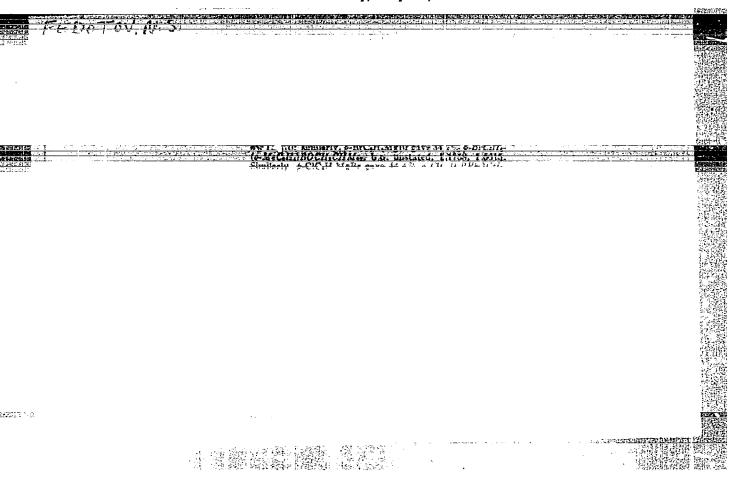
MIKHAYLOV, B.M.; FEDOTOV, M.S.

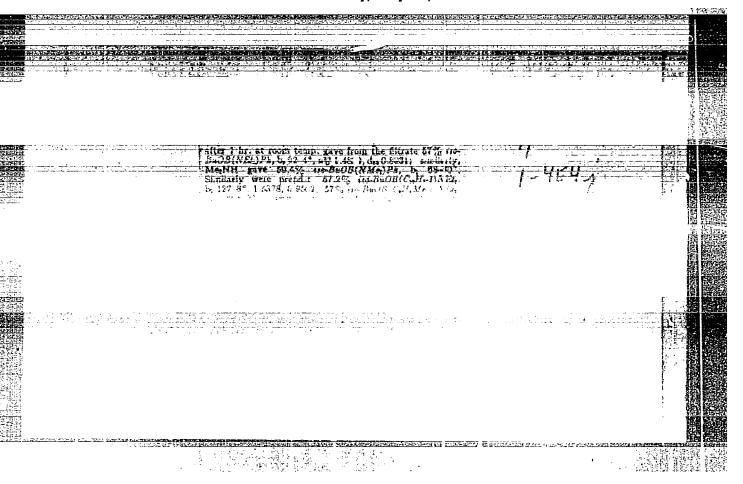
Boron organic compounds. Part 6. Effect of phosphorus pentachloride on diarylboric acid esters. Synthesis of diarylborochlorides.

Izv.AN SSSR.Otd.khim.nauk no.3:375-376 Mr 156. (MLRA 9:8)

1. Institut organicheskoy khimii imeni M.D. Zelinskogo Akademii nauk SSSR. (Phosphorus pentachloride) (Chlorides)







AUTHORS:

Mikhaylov, B. M., Fedotov, N. S.

SOV/62-58-7-10/26

TITLE:

Organic Boron Compounds (Bororganicheskiye soyedineniya) Communication 24. The Effect of Acetic Acid and Acetic Anhydride on Boron Phenyl Dichloride and Boron Diphenyl Chloride (Soobshcheniye 24. Deystviye uksusnoy kisloty i uksusnogo angidrida

na fenilbordikhlorid i difenilborkhlorid)

PERIODICAL:

Izvestiya Akademii nauk SSSR, Otdeleniye khimicheskikh nauk,

1958, Nr 7, pp 857 - 859 (USSR)

ABSTRACT:

The chemical properties of boron aryl dichlordes have been little investigated up to now. Mikhaelis systematically investigated the ratio between the boron aryl dichlorides and water, with which they react under the formation of boron aryl acids (Ref 1). Furthermore he investigated the effect of alcohol and chlorine (Refs 2,3) on boron phenyl dichloride as well as the effect of sodium methylate and ethylate on the β boron naphthyl dichloride. Still less information is available on the properties of the boron diaryl chlorides (Refs 5,6). In the present paper the formation of boron phenylpyro acetic anhydride by the action of acetic acid on boron phenyl dichloride is discussed. The authors found

Card 1/2

that boron diphenyl chloride reacts with acetic anhydride, with

THE THE PROPERTY OF THE PROPER

Organic Boron Compounds. Communication 24: The SOV/62-58-7-10/26 Effect of Acetic Acid and Acetic Anhydride on Boron Phenyl Dichloride and

boron diphenyl anhydride being formed. Under the influence of acetic acid on boron diphenyl chloride first boron diphenyl anhydride is formed which lateron converts into boron phenyl-pyro acetic anhydride under the action of acetic acid. Boron p-chlorophenyl dichloride reacts with acetic acid (under the simultaneous formation of chlorophenyl pyroacetic anhydride). There are 6 references, 3 of which are Soviet.

ASSOCIATION:

Institut organicheskoy khimii im.N.D.Zelinskogo Akademii nauk SER Institute of Organic Chemistry imeni N.D.Zelinskiy, AS USSR)

SUBMITTED:

December 28, 1956

Card 2/2

804/62-58-7-16/20 AUTHOR : Wikney tor, B. W. Stokkana, A. H., TITLE: The Production of Browides of Organo-Boron Co. scunds From Esters of Organo-Bario Acids and Organo-Boron Chlarides (Poluchenzye bromidow boyorganichaskikh soyadineniy iz eftrov bororganicheskikh kislot i bororganicheskikh khloridav) PERIODICAL: Izvestiya Akademii pauk 5858, Otdeleniye khimicheskikh neuk, 1958, Nr 7, pp. 891-895 (think) ABSTRACT: By the action of phosphorus pentachloride on the asters of organoberon compounds the chlorides of organoboron compounds of the type H₂B21 (Neft 1, 2), MBC1, (Neft 3, 4) and RBC1(OR) (Refs. 2, 5) can easily be produced. The problem arose whether the bromides of organobromine compounds may be synthesized in a cimilar way. In the present paper the authors describe the production of boron diphenyl bromide, and of the iscoutyl eater of physyl bromoboric acid. By the action of phosphorus pentabromide on the isobutyl ester of diphenyl boric acid the boron diphenyl bromids and isobutyl ester of Card 1/2 phenyl bromoboric acid are formed. By the action of hydrogen

JOY/62-58-7-16/26 The Production of Bromides of Organo Boron Compounds From Poters of Organo Borio Acids and Organo Boron Chlorides

> promide on boron diphenyl chloride or boron phenyl dichicride the boron diphenyl bromide and boron pheny! dibromide are formed correspondingly. There are 7 references, 5 of which are Soviet.

Institut organicheskov khimii im. h. D. Zelinskogo Akademii ASSOCIATION:

nauk BSSR

(Institute of Organic Chemistry imer, N. D. Zelinskiy AS 9858)

SUBMITTED: Mebruary 6, 1958

Cara 2/2

5(3) AUTHORS:

Mikhaylov, B. M., Fedotov, N. S.

507/62-59-8-24/42

TITLE:

Complex Compounds of Diphenyl Boron Chloride With Primary Amines and N-Substituted Derivatives of Diphenylamino Boron

PERIODICAL:

Izvestiya Akademii nauk SSSR. Otdeleniye khimicheskikh nauk, 1959, Nr 8, pp 1482-1483 (USSR)

ABSTRACT:

The present paper is a continuation of investigations made concerning the reaction of diarylborochloride and anines (Ref 1). The primary amines form, in contrast with the secondary amines, complexes with the above compounds where two amino molecules are to be found for each chloride molecule:

 $(c_{6}H_{5})_{2}BC1 + 2RNH_{2} = (R_{6}H_{5})_{2}BC1.2RNH_{2}$

R being CH_3 -, C_2H_5 -, $i-C_4H_9$

So far, these compounds had been unknown. Similar compounds (alkylboron difluorides with two alcohol molecules) had been obtained by Mikhaylov and Shchegoleva (Ref 3). The structure of the molecules obtained here is considered either a hydrogen-bond structure (II) or heteropolar (III). The saline character and the low volatility suggest (III). When the temperature is raised

Card 1/2

APPROVED FOR RELEASE: Thursday, July 27, 2000

CIA-RDP86-00513R00041273(

Complex Compounds of Diphenyl Boron Chloride With SOV/62-59-8-24/42 Primary Amines and N-Substituted Derivatives of Diphenylamino Boron

above the melting point, the molecule decomposes and forms N-substituted diphenylamino boron (IV) and alkylamino chloride. Compound (I)(R = CH₂) changes when left undisturbed into the crystalline dimer which is probably of a cyclic structure (V). The existence of the complexes investigated and their thermal transformation throw some light upon the reaction mechanism of the substitution for the chlorine atoms at the amino group in boron-organic halogenides. The experimental part describes in

detail the individual transformation reactions. There are 3 references, 2 of which are Soviet.

ASSOCIATION: Institut organicheskoy khimii im. N. D. Zelinskogo Akademii nauk

SSSR (Institute of Organic Chemistry imeni N. D. Zelinskiy of the

Academy of Sciences, USSR)

SUBMITTED: December 17, 1958

Card 2/2

5 (3) AUTHORS:

Mikhaylov, B. M., Fedotov, M. 8 ... SOV/79-29-7-30/83

TITLE:

Organoboron Compounds (Bororganicheskiye soyedineniya). XXXVI. Asymmetrical Diaryl Boric Acids and Their Derivatives (XXXVI. Nesimmetrichnyye diarilbornyye kisloty i ikh proizvodnyye)

PERIODICAL:

Zhurnal obshchey khimii, 1959, Vol 29, Nr 7, pp 2244 - 2248

(USSR)

ABSTRACT:

One part of the diaryl boric acids form complex compounds with

water of the type

(A) 2, the other part contains no water, it has, however, the effect of Lewis acids in aqueous solutions, i.e. with bases they form the same salts (B) as the acids of the hydrate form (A). The authors continued their investigation of the complex formation in the series of aromatic boron compounds and synthesized some unsymmetrical diaryl boric acids, their esters, and acid chlorides, and investigated their capability of complex formation. The isobutyl esters of unsymmetrical diaryl boric acids (V) were synthesized by the reaction of the corresponding Grignard reagents with the isobutyl

Card 1/3

Organoboron Compounds.XXXVI. Asymmetrical Diaryl SOV/79-29-7-30/83 Boric Acids and Their Derivatives

> ester of phenyl boric acid (Scheme 1). In this case the isobutyl esters of phenyl-p-tolyl-, phenyl-p-bromophenyl-, and phenyl-a-naphthyl boric acid were obtained. These esters form stable complex compounds (G) with amnonia. The isobutyl esters of phenyl-p-tolyl- and phenyl-α-naphthyl boric acid were transformed with PCl₅ into the chlorides, phenyl-p-tolyl boron chloride and phenyl-α-naphthyl boron chloride (Scheme 2). The diaryl boron chlorides form the following solid complex compounds with dioxane (1:1): phenyl-p-tolyl boron chloride-, phenyl-α-naphthyl boron chloride- as well as diphenyl boron chloride and di-a-naphthyl boron chloride dioxanate (Ref 4) (Scheme 3), which were synthesized already earlier. In the hydrolysis of the phenyl-a-naphthyl- and phenyl-p-tolyl boron chloride, the phenyl-α-naphthyl- and phenyl-p-tolyl boric acid are formed which contain no complex water (Scheme 4). The latter acid is extremely unstable and decomposes according to scheme 5. There are 5 Soviet references.

Card 2/3

SOV/79-29-7-30/83 Organoboron Compounds. XXXVI. Asymmetrical Diaryl Boric Acids and Their Derivatives

Institut organicheskoy khimii Akademii nauk SSSR (Institute of Organic Chemistry of the Academy of Sciences, USSR) ASSOCIATION:

SUBMITTED: June 18, 1958

Card 3/3

5(2,3)SOV/20-127-5-25/58 Mikhaylov, B. M., Kozminskaya, T. K., Fedotov, H. S., Dorokhov, V. A. AUTHORS: TITLE: Esters of Organothioboric Acids and Some of Their Transformations PERIODICAL: Doklady Akademii nauk SSSR, 1959, Vol 127, Nr 5, pp 1023-1026 (USSR) ABSTRACT: Since the esters of dialkyl thioboric acids (Refs 1, 2) proved to be very reactive compounds which may be used for the synthesis of various organoboric compounds the authors were interested in the production of the acids mentioned in the title and in their behaviour. The known aliphatic monosubstituted and the aromatic substituted esters of the thioboric acids are enumerated (Refs 3-5) and their production methods are mentioned. The authors found that the n-butyl esters of the alkyl thioboric acids (Ref 1) are produced in good yields in the boiling of the alkyl boron dichlorides and -dibromides with n-butyl mercaptan (see Scheme). By the same method n-butyl ester of the phenyl thioboric acid (II) was produced. Diphenyl boron chloride and di-∝-naphthyl-boron chloride react in similar way with n-butyl mercaptan and form n-butyl esters of diphenyl thioboric acid Card 1/3 (III. Ar = C_6H_5) and of di- ∞ -naphthyl thioboric acid

Esters of Organothioboric Acids and Some of Their Transformations

507/20-127-5-25/58

(III. Ar = ∞ - $C_{10}H_7$). All esters produced are highly reactive. This permits their transformation into other organoboric compounds. By the action of ethylene diamine the mentioned esters are smoothly transformed into cyclic compounds, under the separation of n-butyl-mercaptan i.e. into 2-alkyl-2-boron-1,3diazolidine (IV). In the action of ammonia on the esters of alkyl- and aryl thioboric acids at low temperatures the two latter were transformed into the corresponding boron trialkyland boron triaryl borazoles (V). The reaction between the ester and the phenyl thioboric acid and diethyl amine takes place in one direction under the formation of phenyl-di(diethyl amino)boron with a yield of 80%, whereas the amino compound (VI) is produced from the phenyl boron dichloride only in a 14% yield (Ref 8). Under the action of n-butyl ester of diphenyl thioboric acid is transformed into diphenyl butyl amino boron (VII) in the action of n-butyl amine in a 80% yield. The esters of

Card 2/3

Esters of Organothioloric Acids and Some of . . . Their Transformations

SOV/20-127-5-25/58

diphenyl thioboric and di- α -naphthyl-thioboric acid react with ammo is at low temperatures. In this connection diphenyl amino boro. (VIII. Ar = C_6H_5 see Scheme) are formed or di- α -naphthyl-amin -boron (VIII. Ar = α - $C_{10}H_7$). There are 9 references, 5 of which are Soviet.

ASSOCIA. JN: Institut organicheskoy khimii im. N. D. Zelinskogo Akademii nauk SSSR (Institute of Organic Chemistry imeni N. D. Zelinskiy of the Academy of Sciences, USSR)

PRESENTED: April 20, 1959, by B. A. Kazanskiy, Academician

SUBMITTED: April 18, 1959

Card 3/3

5/062/60/000/009/006/021 B023/B064

5 37 00

2209. 1273, 1236

Mikhaylov, B. M. and Fedotov, N. S.

AUTHORS: TITLE:

Organoboron Compounds. Communication 58. The Effect of

Amines and Ammonia Upon Diaryl Boron Chlorides

PERIODICAL:

Izvestiya Akademii nauk SSSR. Otdeleniye khimicheskikh

nauk, 1960, No. 9, pp. 1590-1594

TEXT: The authors investigated organoboron compounds and the effect of amines and ammonia upon diaryl boron chlorides. Aniline, the primary aromatic amine, reacts with diphenyl boron chloride in the same manner as secondary alophatic amines, and forms diphenyl phenyl amine boron at room temperature. The aromatic radical bound to boron exerts also a strong influence upon the reactivity of diaryl boron chlorides. Di- < -naphthyl boron chloride was found to be converted into corresponding N-substituted derivatives of di-x-naphthyl amine boron both under the action of primary aliphatic and aromatic amines, and secondary aliphatic amines at room temperature. Thus, the following compounds were obtained: di-o-naphthyl methyl amine boron, di-d-naphthyl isobutyl amine boron, di-d-naphthyl

Card 1/3

Organoboron Compounds. Communication 58. The S/062/60/000/009/006/021 Effect of Amines and Ammonia Upon Diaryl Boron B023/B064 Chlorides

phenyl amine boron, and di-d-naphthyl diethyl amine boron. The behavior of diphenyl boron chloride and di-a-naphthyl boron chloride toward ammonia differs completely. When bubbling ammonia at low temperature through a benzene solution of di-a-naphthyl boron chloride, di-a-naphthyl amine boron forms readily. Diphenyl boron chloride forms a stable complex with ammonia (Ref. 2). A complete analysis showed that it is the diammoniate of diphenyl boron chloride, which probably has a heteropolar structure. The emmonium salt of diphenyl borenium acid: [(C6H5)2B(OH)2] NH4 forms during the hydrolysis of this complex. N-substituted derivatives of diphenyl amine boror and of di-d-naphthyl amine boron exhibit a different stability to water. The stability depends both on the nature of the aromatic radicals bound to the boron atom and on the character of the radicals in the amine group. Diphenyl phenyl amine boron and di-a-naphthyl phenyl amine boron are easily hydrolyzed by atmospheric humidity, while di-a-naphthyl diethyl amine boron does not even change when heated with water at 100°C for 1 h. Di-d-naphthyl amine boron, di-d-naphthyl methyl amine boron, and di-d-

maphthyl isobutyl amine boron do not change under the action of water at

Card 2/3

Organoboron Compounds. Communication 58. The \$/062/60/000/009/006/021 Effect of Amines and Ammonia Upon Diaryl Boron B023/B064

room temperature for one hour; they are, however, hydrolized by water at 100°C under the formation of the respective amine and the di-x-naphthyl boric acid. The latter decomposes into naphthalene and &-naphthyl boric acid. The authors think that the compounds are more stable to water than hexamethyl borazole which is hydrolized with water at room temperature. Thus, the authors conclude that the relative stability of borazole and its derivatives to hydrolizing agents is not only characteristic of cyclic compounds with boron - nitrogen bonds, but also of some nitrogen compounds of boron with an open chain. There are 6 references: 4 Soviet and 2 German.

ASSOCIATION:

Institut organicheskoy khimii im. N. D. Zelinskogo Akademii nauk SSSR (Institute of Organic Chemistry imeni N.D. Zelinskiy of the Academy of Sciences USSR)

SUBMITTED:

March 31, 1959

Card 3/3

FEDOTOV, N. S.

Cand Chem Sci - (diss) "Synthesis and properties of diarylboro-chlorides." Moscow, 1961. 11 pp; (Moscow Order of Lenin and Order of Labor Red Banner State Univ imeni M. V. Lomonosov); 120 copies; price not given; list of author's works on p 11 (11 entries); (KL, 5-61 sup, 177)

MIKHAYLOV, B.M.; FEDOTOV, N.S.

Structure of complex compounds of diphenyl boron chlorides with primary amines. Izv.AN SSSR.Otd.khim.nauk no.10;1913 0 '61.

(MIRA 14:10)

1. Institut organicheskoy khimii im. N.D.Zeliniskogo AN SSSR.

(Boron compounds) (Amines)

33927 \$/079/62/032/001/003/016 D226/D302

5.2410

AUTHORS:

Mikhaylov, Boller, and Fedotov, N.S.

TITLE:

Organic compounds of boron. LXXXVIII Reactions of diarylborochlorides with aromatic amines and heterocyclic compounds

PERIODICAL: Zhurnal obshchey khimii, v. 32, no. 1, 1962, 93 - 95

TEXT: The present work is a continuation of an earlier investigation by the authors (Ref. 1: Izv. AN SSSR, OKhN, 1960, 1590) in which they had shown that aniline readily reacts with both diphenyl and di- α -naphthyl borochlorides. In this paper reactions of other aromatic amines with arylborochlorides are described. The authors found that both α -naphthylamine and diphenylamine readily react with arylborochlorides according to the following reactions:

 $Ar_2BC1 + 2H_2NC_{10}H_7 - \alpha \rightarrow Ar_2BNHC_{10}H_7 - \alpha + H_2NC_{10}H_7 \cdot HC1$

and

 $Ar_2BO1 + 2HN(C_6H_5)_2 \rightarrow Ar_2BN(C_6H_5)_2 + HN(C_6H_5)_2 \circ HC1$

Card (1/3)

33927 S/079/62/032/001/003/016 D226/D302

Organic compounds of boron ...

where

 $Ar = 0_6H_5, \quad r - 0_{10}H_7.$

Diaryl- α -naphtylamino borons resulting from the first reaction above are colorless compounds unstable in the presence of air. The products of the second reaction viz., di- α -naphthyl diphenylamino boron and diphenyl-diphenylamino-boron are both readily hydrolyzed on standing in air, in contrast to the di- α -naphthyl-diethylamino boron previously synthesized by the authors. It was shown further that some amines e.g. β - β ' dinaphthylamine and triphenylamines do not react at all with diarylborochlorides, presumably because of steric hindrance. The ease with which diarylborochlorides form complexes with amines shows them to be stronger Lewis acids than the corresponding trialkylborons. Thus diphenylborochloride forms an unstable complex with α , α -lutidine whilst trimethyl boron does not. Similarly diphenyl- and dinaphtyl-borons give rise to unstable complexes with quinoline. The authors give details of the methods of preparing the various complexes, state the yields obtained and the composition of the products. There are 4 references: 3 Soviet-bloc and 1 non-Soviet-bloc. The reference to the English-language publi-Card 2/3

Organic compounds of boron ... Solvesinger and S. Cordon, J. Am. Chem. Soc. 64, 325, 1942.

SUBMITTED: February 18, 1961

2	s/062/62/000/006/003/008 B117/B101
AUTHORS:	Mikhaylov, B. M., and Fedotov, N. S.
TITLE:	Organoboron compounds. Communication 100. Reactions of osters of thioboric and organothioboric acids with carbonyl compounds
PERIODICAL:	Akademiya nauk SSJR. Izvestiya. Otdeleniye khimicheskikh nauk, no. 6, 1962, 999 - 1001
TEXT: Ortho	oboric acid esters were shown to react with aldehydes and ketons
with formation thicketal of solution of Unier the solution and a with benzal oxide and b	oboric acid esters were shown to react to rede; di-n-butyl ion of thioacetals, thioketals, and boric oxide; di-n-butyl facetone (90%) was got besides boric oxide, from a benzene acetone and n-butyl thioborate heated in a water bath (3 hr). ame conditions, ethyl thioborate and acetophenone yielded boric cetophenone diethyl thioketal (82.1%). Ethyl thioborate reacted dehyde in benzene solution, liberating heat and producing boric dehyde diethyl thioacetal (91.1%). The reaction of n-butyl phorate with acetone yielded phenyl boric anhydride and di-n-butyl of acetone (86%). The reaction of n-butyl-di-c-naphthyl thio-

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TO:

Organoboron compounds. ...

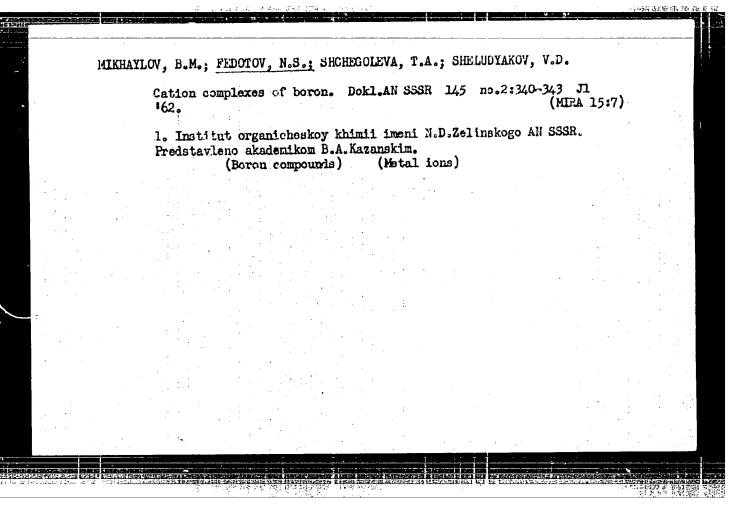
5/062/62/000/006/003/006 B117/B101

borate with acetone yielded di-x-naphthyl boric anhydride (78.5%), acetone thicketal (85%), and small amounts of x-naphthyl boric anhydride and naphthalene. The reaction of acetone with diphenyl thioborate gave phenyl boric anhydride (33%) and benzene besides diphenyl boric anhydride (65.4%). The yield of acetone thicketal was only 66.5%. Acetone supplies the hydrogen required for the formation of aromatic hydrocarbons.

ASSOCIATION: Institut organicheskoy khimii im. N. D. Zelinskogo Akademii nauk SSSR(Institute of Organic Chemistry imeni N. D. Zelinskiy of the Academy of Sciences USSR)

SUBMITTED: January 11, 1962

Card 2/2



EWT(m)/T RM/WW/JW/JWD L 33262-66 UR/0158/65/000/011/D021/D021 AR6016188 SOURCE CODE: ACC NO Nikitina, A. N.; Petukhov, V. A.; Galkin, A. F.; Fedytov, N. S.; Bubnov, : HOHUUA THRE: Absorption spectra of boro-organic compounds in the vacuum-ultraviolet region SOURCE: Ref. zh. Fizika, Abs. 110156 TREE COURCE: Tr. Komis. po spektroskopii. AN SSSR, t. 3, vyp. 1, 1964, 369-383 TORIC TAGS: uv spectrum, absorption spectrum, boron compound, electron spectrum, :: line intensity, Raman spectrum ABSTRACT: The authors investigated the electronic absorption spectra of solutions of boro-organic compounds of aromatic and non-aromatic series, and also substituted borazols in the region ~1700 - 3000 A. The integral intensities of the lines (of the benzene ring) were measured in the Raman spectra of certain boro-organic compounds of the aromatic series. The strong interaction between the borch atom and the aromatic radicals was observed, which was especially strongly manifest in short-wave electron transitions. With increasing interaction the intensity of the corresponding bands decreases. The changes of the spectra observed in the borazols are analogous to the changes of the spectra of the corresponding benzene substitutes. [Translation of abstract] SUB CODE:

MIRONOV, V.F.; FEDOTOV, N.S.

New method for phenyltrichloro and phenyltribromogermane preparation. Zhur. rb. khim. 34 no.12:4122 D'64 (MIRA 18:1)

1. Institut organicheskoy khimii AN SSSR.

MYKHAYLOV, B.M.; FEDOTOV, N.S.

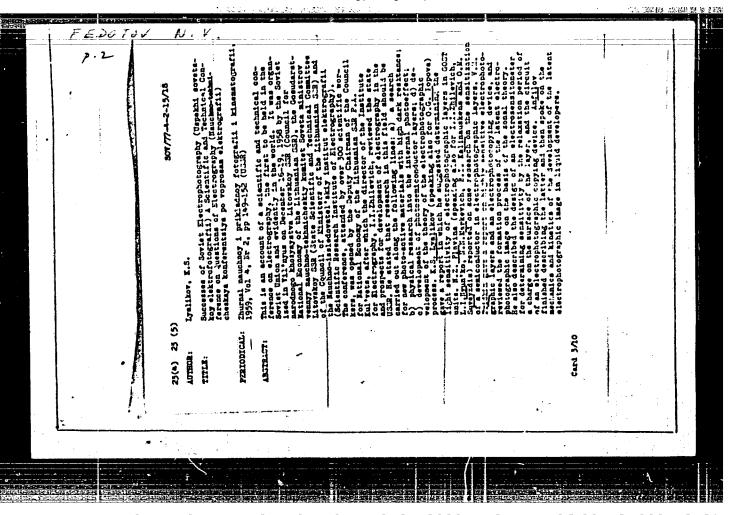
Mechanism of nucleophilic substitution at the boron atom in organoboron compounds. Dokl. AN SSSR 154 no.5:1128-1131 F'64. (MIRA 17:2)

1. Institut organicheskoy khimii im. N.D. Zelinskogo AN SSSR. Predstavleno akademikom B.A. Kazanskim.

	L 19367-66 EWT(m)/EWP(j) RM UR/0079/64/034/012/4	122/4122
	ACCESSION NRI AP5016195 UR/00/9/64/034/012/4	(5 / 1
	AUTHOR: Mironov, V. F.; Fedotov, N. S.;	normana 14h B
	TITLE: New method of producing phenyltrichloro- and phenyltribros	ogersane D
	SOURCE: Zhurnal obshchey khimii, v. 34, no. 12, 1964, 4:122	
	TOPIC TAGS: organogermanium compound, chlorinated organic compound ic compound	
	Abstracts Boiling of GeCl4 or GeBr, with iodobenzene in the of copper powder was found to lead to a high yield (approximate of the corresponding phenyltrihalogermane. Replacement of conther metals (Zn, Fe, Na) or replacement of iodobenzene by brobenzene, as well as replacement of GeCl4 by CH3GeCl3 did not. The authors claim that the new way of synthesizing C6H5GeCl3 to the best of those now known. Orig. art. has 4 for	pper by ome- succeed. and mulas.
	ASSOCIATION: Institut organicheskoy khimii Akademii nauk SSSR ic Chemistry, Academy of Sciences, SSSR)	
439	SUBMITTED: 20Jul64 ENCL: 00 SUB NO REF SOV: 001 OTHER: 01.1 JPRE	CODE: OS, GC
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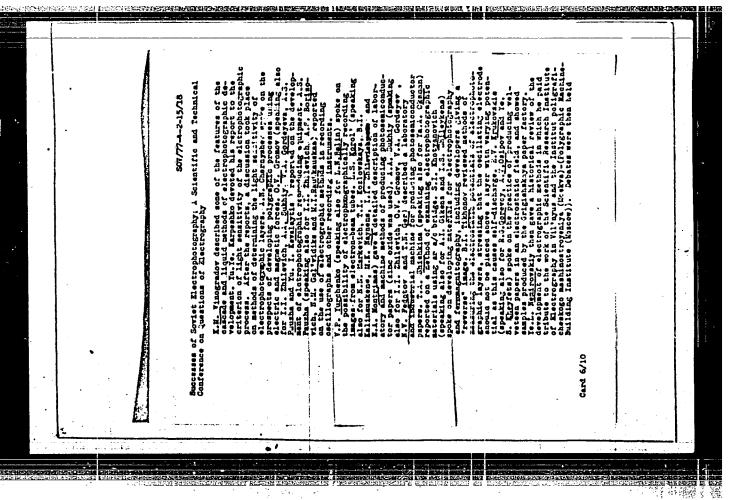
MIKITINA, A.N.; PETUKHOV, V.A.; GALKIN, A.F.; FEDOTOV, N.S.; BUENOV, Yu.N.; ARONOVICH, P.M.

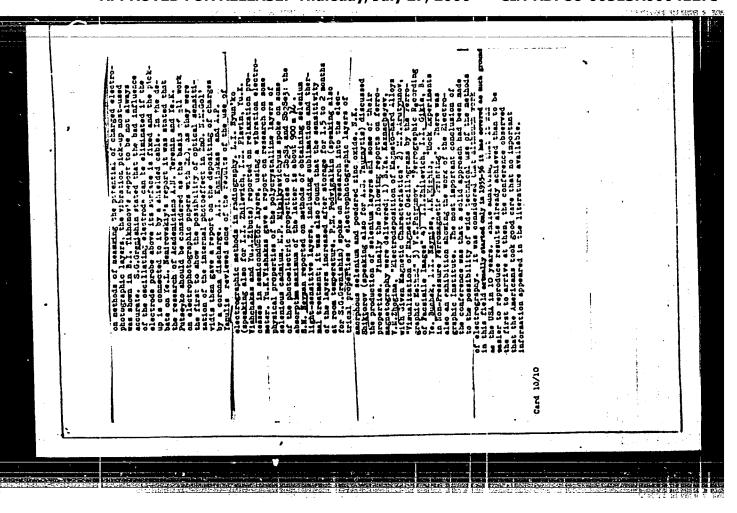
Absorption spectra of organoboron compounds in the vacuum ultraviolet region. Opt. 1 spektr. 16 no.6:976-983 Je '64. (MIRA 17:9)

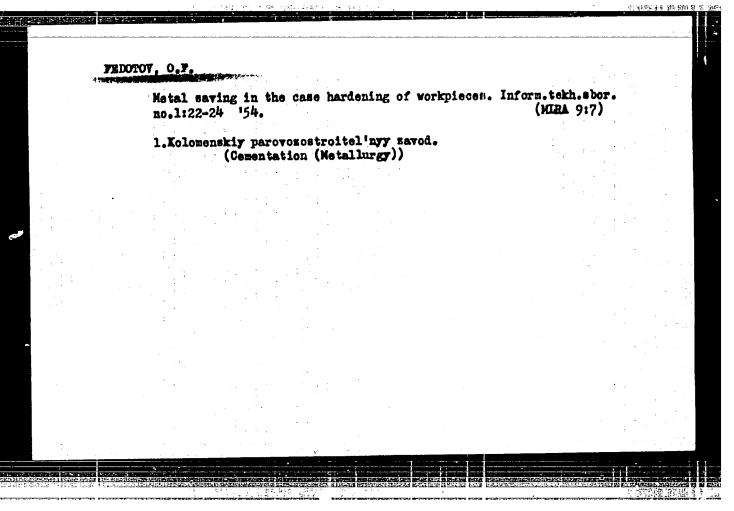


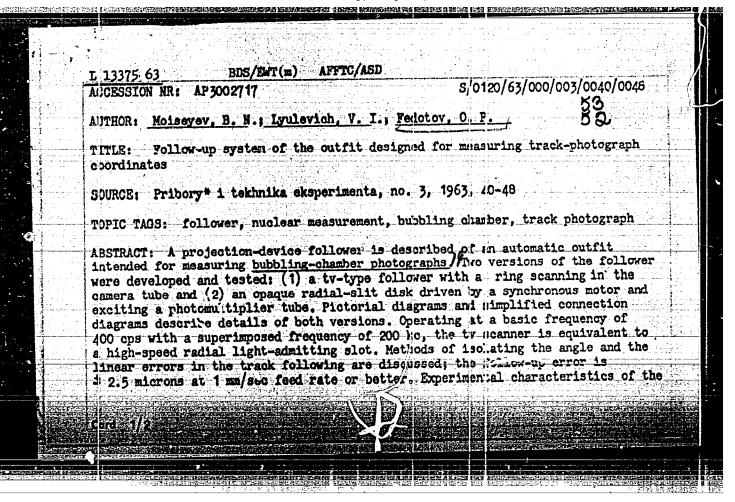
APPROVED FOR RELEASE: Thursday, July 27, 2000

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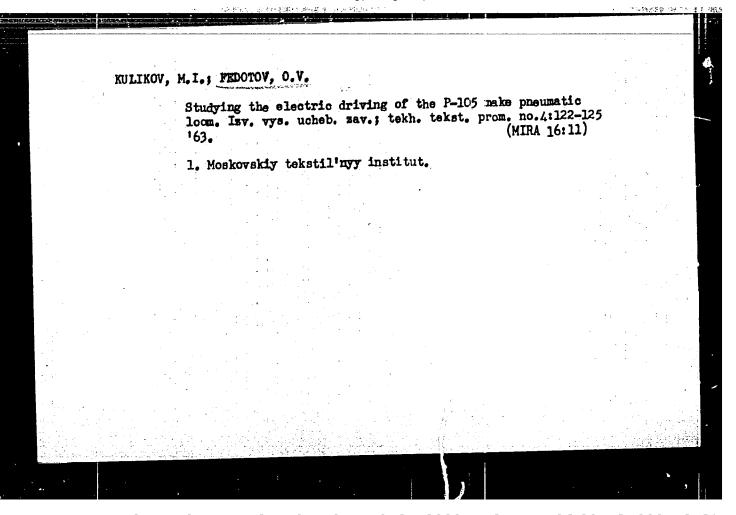








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Card 2/2		



FEDOTOV, O.V.a starshiy prepodavatel; KULIK W. M.I., dotsent, kand. tekhn.

nauk

Advantages of the use of four-pole electric motors for local driving. Tekst. prom. 25 no.8:74-76 Ag '65. (MTRA 18:9)

1. Moskovskiy tekstil'nyy institut.

			THE MADERNA CO				Piera di Merona :
	LOSEV,	I.P.; FEDO	TOV. O.Ya.; ZAI	oshch i kov.	S.A.		
	Reactions of 4,4'-diamino-3,3'-dimethylphenylmethane with lower lower dicarboxylic acids and some of their neutral esters. Izv. vys.ucheb.zav.; khim. i khim.tekh. 1 no.5:58-60 158.						
	(MIRA 12:2) 1. Moskovskiy khimiko-tekhnologicheskiy institut imeni D.I. Mendeleyeva, kafedra tekhnologii vysokomolekulyarnykh soyedi-						
	,	neniy.	(Methane)	•	(Acids, Orga	anic)	
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LOSEV, I.P.; FEDOTOVA, O.Ya.; ASKAROV, M.A.; SEDOV, L.N.

Synthesis and study of mixed polyamides from aromatic diamines and adipic acid. Nauch.dokl.vys.shkoly; khim.1 khim.tekh. no.1:159-161 '59. (NIRA 12:5)

1. Predstavlena kafedroy tekhnologii vysokomolekulyarnykh acyedineniy Moskovskogo khimiko-tekhnologicheskogo instituta im. D.I. Mendeleyeva. (Amides) (Adipic acid) (Methane)

KLOTS, P., ingh. (Perm'); FERMTON, P., deputat gorodskego Soveta (Rybinsk, Yaroslavskoy obl.); DANILINA, K., CHERNOV, M.

Accounts of progressive practices in house committees. Zhil.-kom.khos. 12 no.7:10-11 J1 '62.

1. Zaveduyhahchaya detskim sektorom obshohestvennogo domovogo
komiteta domoupravleniya No.2, g. Artemovsk, Donetskoy obl.
(for Danilina). 2. Glavnyy ingh. shilishchno-eksplustatsionnoy
kontory No.17 Leningradskogo rayona Moskvy (for Chernov).

(Apartment houses)

ญ-2 USSR/Farm Animals - Horses. : Ref Zhur - Biol., No 7, 1958, 30924 Abs Jour Fedotov P.A. Author Inst Results of the Improvement of the Buryat Horse by the Title Trotter Stallion. (Rezul'taty uluchsheniya buryatskoy loshadi rysakom). Tr. Alma-Atinsk. zoovet. in-ta, 1956, 9, 97-103. Orig Pub In order to study the results of crossing Buryat horses Abstract with the Trotter breeds, 600 heads of the Buryat breed and 1,100 heads of the Buryat-Trotter cross-breeds of different generations were measured and described. The improved horse is 141.6 cm. tall and has a lengthened (size index 103.6) and massive (body-width index 120.0) body, and a well-developed bony framework (boniness index 13.0). In the tests for high speed, the Trotter crossbreeds covered a distance of 2,000 m., at a pace Card 1/2

USSR/Farm Animals - Horses.

0-2

Abs Jour

: Ref Zhur - Biol., No 7, 1958, 30924

in 16 min. 41 sec., and at a trot in 5 min. 55 sec. The horses of the Buryat breed covered the same distance in 19 min. 26 sec. and in 10 min. 42 sec., respectively. It is recommended to cross the Buryat horses with the Trotter breeds and to raise the crossbreeds of the first and second generations under improved conditions of feeding and management.

Card 2/2

- 24 -

USSR/Form Animals. Horses

Q-2

Abs Jour : Ref Zhur - Biol., No 11, 1958, No 49955

Muthor

Almo-Ate Toological Institute of Votorinary Sciences, Kafedry Konevoleton

Inst Title

: Cross-Breeding of Don and Buryat Horses

Orig Pub : Tr. Almo-Atinek. zoovot. in-tc, 1956, 9, 104-108

Abstract : Cross-bracking of Buryat horses with Don stallions resulted in Don-Buryet hybrids of the 1st generation. These hybrids word 11.1 on taller, 9.3 cm longer, had a 10.5 cm wider chost and a 2.0 cm larger (in circumgerence matecorpus then Buryet horses. The trotting speed of the 1st generation Don-Buryet hydrids was 3 min 14soc per 1 kg; when they were pulling a load their speed was 7.2 kg/hour. The respective speeds of Buryet horses were 5 min 21 sec and 6.15 kg/hour.

L.M. Dvinskaya

: 1/1 Card

8

Q

JSSR/Farm Animals - Horses

Abs Jour -: Ref Zhur - Biol, No 15, 1958, 69250

: Fedotov, P.A. Author

Alma-Ata Zooveterinary Institute - Kafedry Konevoostva Inst

: Result of the Improvement of the Kazakh Horse by the Trotter Horse in the Kolkhoz "Luch Vostoka" / Ray of Title

the East] of the Alma-Atinskaya Oblas:

Tr. Alma-Atinsk. zoovet. in-ta, 1957, 10, 72-30 Orig Pub

In hybrids of the first generation obtained from crossing Abstract

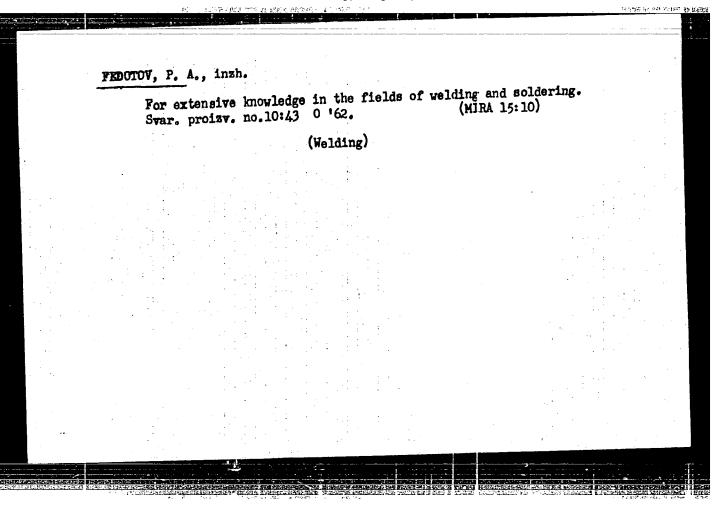
the local Kazakh horse with the Orel Trotter, the average height was 5.9%, transverse length of the body 5.6%, chest circumference 5.5% and circumference of the metacorpus 1.6% greater than in the local Kazakh horse. Most desirable for agricultural work are hybrids of the second and third generations. In combined tests, the

Card 1/2

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DUBROV, Ya.G., prof.; BUACHIDZE, O.Sh., kand. med. nauk; FEDOTOV, P.D.

Osteoblastoclastoma (giant-cell tumor). Khirurgiia 40 no.2;
113-121 F '64.

1. Ortopedo-travmatologicheskoye otdeleniye (sav. - prof.
Ya.G. Dubrov) i rentgeno-radiologicheskiy otdel (sav. - prof.
V.I. Petrov) Moskovskogo oblastnogo nauchno-issledovatel'skogo
klinicheskogo instituta im. Vladimirskogo.

FEDOTOV, P.D.

Changes in the rectosigmoid part of the large intestine in tumors and inflammatory diseases of the true pelvis. Vop. klin. pat. no.2191-102 '61 (MIRA 16:12)

1. Iz rentgenologicheskogo otdela (zav. - starshiy nauchnyy sotrudnik V.I.Petrov) Moskovskogo oblastnogo nauchno-issledo-vatel skogo klinicheskogo instituta imeni Vladimirskogo.

